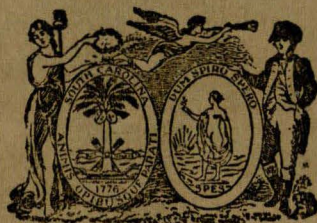


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SOUTH CAROLINA
SECOND ANNUAL REPORT
of the
State Board of
Engineering Examiners
to the
GOVERNOR
1924



For Year Ending June 30, 1924

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of the
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to the
GOVERNOR
1924



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STATE DOCUMENTS

For Year Ending June 30, 1924

NOTE

Copies of this report, application blanks and other information will be furnished upon request to

T. KEITH LeGARE, Secretary,
P. O. Box 413, Columbia, S. C.

LETTER OF TRANSMITTAL

COLUMBIA, S. C., June 30, 1924.

*To His Excellency, HON. THOMAS G. McLEOD,
Governor of South Carolina,
Columbia, S. C.*

SIR:

In compliance with Section 6, of an Act providing for the creation of a State Board of Engineering Examiners and regulating the practice of Engineering in the State of South Carolina, we have the honor to transmit this Second Annual Report of the activities and aims of the Board, together with a statement of receipts and expenditures and a list of those registered in accordance with the Act.

The Board desires to express its appreciation of the cooperation and assistance received from State officers.

Respectfully submitted,

G. E. SHAND, *Chairman,*
T. KEITH LEGARE, *Secretary.*

Personnel of State Board of Engineering Examiners

G. E. SHAND, *Chairman*, Columbia,

President, Shand Engineering & Sales Co.,
Member, American Society of Civil Engineers.

L. S. LETELLIER, *Vice-Chairman*, Charleston,

Professor of Civil Engineering, The Citadel,
Member, American Association of Engineers,
Member, Society for Promotion of Engineering Education,
Associate Member, American Society Mechanical Engineers.

T. KEITH LEGARE, *Secretary*, Columbia,

Vice-Pres. & Mgr. Palmetto Concrete Mfg. Co.,
Dist. Mgr. Dow & Smith, Consulting Paving Engineers,
Sec.-Treas. Natl. Council State Boards Engr. Examrs.
Member, American Society of Civil Engineers,
Member, American Society for Municipal Improvements,
Member, American Association of Engineers.

W. S. TOMLINSON, Columbia,

City Engineer, City of Columbia, S. C.
President, Tomlinson Engineering Company,
Member, American Society for Municipal Improvements,
Member, American Association of Engineers.

GEORGE WRIGLEY, Greenville,

In Charge Electrical Department, J. E. Sirrine & Co., Engineers,
Member, American Institute of Electrical Engineers,
Member, National Electric Light Association.

REPORT

of the

South Carolina State Board of Engineering Examiners

ACT PROVIDING FOR REGISTRATION

The Act providing for the creation of a State Board of Engineering Examiners and the registration of professional engineers and land surveyors was passed by the State Legislature of South Carolina at the 1922 Session and was approved by Governor R. A. Cooper, on March 22, 1922.

APPOINTMENT OF BOARD

The members of the Board were appointed and commissioned by Governor Wilson G. Harvey, on May 31, 1922, as follows:

G. E. Shand, Term Expires 1924 (Reappointed for 4 years).
George Wrigley, Term Expires 1924 " " "
L. S. LeTellier, Term Expires 1925
W. S. Tomlinson, Term Expires 1925
T. Keith Legaré, Term Expires 1926

ORGANIZATION OF BOARD

The Board held its first meeting in Columbia on June 17, 1922 and was organized by the election of officers and the appointment of committees. The following officers were elected for a term of one year: G. E. Shand, Chairman; L. S. LeTellier, Vice-Chairman; T. Keith Legaré, Secretary. At the meeting of the Board held June 17, 1924, these officers were reelected for the ensuing year.

THE "GRANDFATHER CLAUSE" AND PRESENT STATUS OF LAW

The General Assembly wisely provided in the registration Act that all bona fide practicing engineers and surveyors in

the State should be given one year from the date of approval of the Act in which to register without being required to stand an examination. This provision in registration laws is commonly known as the "Grandfather Clause," and its object is to recognize the right of a citizen who is lawfully and in good faith pursuing a profession to continue his work without being submitted to undue inconvenience and possible loss of a means of livelihood by legislation enacted subsequent to the time that he entered the profession.

The "Grandfather Clause" in the South Carolina Law became inoperative on March 22, 1923. Prior to this time practically all of the professional engineers and land surveyors in the State availed themselves of the privilege of registration without examination. Under the provisions of the Act, the Board now has no discretionary powers as to whether it will examine a candidate for registration—all candidates must take the examination.

The outstanding problem now before the Board is to develop a system of examination that will fairly and accurately indicate the qualifications of candidates. The Act states that the examination shall be prescribed "with special reference to the applicants ability to design and supervise engineering works which shall insure the safety of life and property." This is not an easy task, yet the difficulties are not insuperable, and the Board is devoting itself to the task with the confident expectation that it will safeguard the interest of both the State and the individual applicants for registration.

PURPOSES AND AIMS OF THE BOARD

The governing aim of the Board necessarily must be to protect the people of the State against incompetency and dishonesty on the part of engineers and surveyors. In so far as possible the Board will seek to accomplish this by making a searching examination of the education and professional experience of every candidate for registration and to submit said candidate to a formal oral and written examination before the full Board. While the Board cannot hope to perform this task without errors, it does feel that it can minimize the effect of incompetency by refusing registration to candidates who fail to present convincing evidence of their qualifications.

The Board feels that it can best carry out the spirit and intent of the Act by seeking in every proper way to build up among the engineers a pride in their profession and among the citizens of the State generally a realization that engineering work requires the services of highly trained and experienced men. Any service which the Board can render to the engineering profession in improving the conditions under which it must practice, is the surest guarantee to the State that the engineering work done in the State will be safe, economical and in accord with the highest professional standards.

It is the hope of the Board that when the purpose of the Law is better understood and its effect more clearly observed, the time will come when a registration certificate will constitute a virtual guarantee that the holder is a competent man practicing his profession in accordance with its best technical and ethical standards. The Board cannot accomplish this without the support of the engineers and surveyors of the State. The profession itself must set up and enforce standards of practice that will make it increasingly difficult for incompetent or unethical men to remain in the profession.

OPERATION OF THE ACT IN SOUTH CAROLINA

Notwithstanding the provision of the Act which makes registration optional, only a small number of men have failed to register. The suspicion that the Act might lead to a kind of "unionization" of engineers and surveyors seems to have been dispelled.

The Board sought to simplify the process of registration for those entitled to registration under the "Grandfather Clause" in order that the expense and inconvenience incident to registration might be minimized. Very little complaint has come to the Board from this group of men.

The fact that such a large percentage of the engineers and surveyors have registered seems to indicate confidence that registration is worth while. A failure of any considerable number of men to register would have seriously weakened the effect of the law and made the task of the Board more difficult.

The Board believes that it has practically the united support of the engineers and surveyors of the State, and it hopes that

as the effects of the law are better understood it will earn the support of the people of the State—that they will realize the law is exactly what it proposes to be: a measure to protect the public against engineering incompetency.

RECIPROCAL REGISTRATION

The South Carolina Act provides for reciprocity with other states in the matter of registration of engineers and in order that this can be intelligently handled, the Board sends its secretary to the national meetings of the Council of State Boards of Engineering Examiners. At the last meeting of the Council Mr. Legaré was elected Secretary-Treasurer. Articles of agreement on reciprocal registration of engineers have been adopted by the Council and these were accepted by the South Carolina Board. These articles, which are printed in full elsewhere in this report, have been ratified by the following twelve states: Arizona, Colorado, Florida, Indiana, Iowa, Louisiana, Michigan, Minnesota, North Carolina, Oregon, South Carolina and West Virginia. The engineer whose practice extends into other states will find the conditions of registration greatly simplified in those states which have ratified this agreement.

GENERAL STATUS OF REGISTRATION IN THE UNITED STATES

Louisiana was the first State to pass a law regulating the practice of engineering, this was in 1908. Since then the following States have passed all-inclusive registration laws: Arizona, Colorado, Florida, Indiana, Iowa, Louisiana, Michigan, Minnesota, New Jersey, New York, North Carolina, Oregon, Pennsylvania, South Carolina, Tennessee, Virginia, West Virginia and Hawaii. The States of California, Idaho, Illinois and Wyoming have enacted laws governing the registration of certain classes of engineers and surveyors. About ten States have bills before their legislatures intended to regulate the practice of engineering. Criticism of registration for engineers has been chiefly by those who persist in considering the matter as one of immediate necessity and immediate results, neither of which is correct, the object being principally a gradual elevation of the standards of the profession.

ACTIVITIES OF THE BOARD

One thousand copies of the Act regulating the practice of engineering in South Carolina were printed in pamphlet form and the Secretary of the Board mailed a copy to every engineer and surveyor in the State whose address was available. Forms for application blanks were also prepared by the Board in which were given detailed instructions for procedure in applying for registration.

The Board has adopted By-Laws and Rules governing the policies of the Board, also an official Seal. A design for Seal to be used by the registrants was also approved, and it is hoped that all registered engineers and surveyors will realize the importance of using the seal on their drawings and papers.

The Board has examined a total of two hundred and ninety-four applications for registration (which does not include the five members of the Board who were appointed by the Governor) and the Board's decision on these has resulted as follows: 279 approved, 9 rejected, and 6 postponed. Four applications for national reciprocity certificates have been considered, 2 granted, 1 rejected and 1 postponed. Accompanying this report is a complete list of registrants to date showing their name, business, address, classification, certificate date and number.

EXPENSES OF THE BOARD

June 18th 1923 to June 16th 1924

Personal Services and Expenses.....	\$1,294.15
Printing—including stamped envelopes)...	203.00
Office Supplies and Stationery.....	14.39
Advertising—notices required by law.....	231.27
Postage	11.00
Premium on Bond of Secretary.....	15.00
Pro rata share expenses of Council State Boards of Engineering Examiners.....	31.91
<hr/>	
Total	\$1,800.72

A financial statement showing all receipts and expenditures, with report of Auditor of State Institutions, is made a part of this report.

MEETINGS, APPLICATIONS, FEES, RENEWALS

Regular meetings of the Board are held on the first Tuesday of December and the fourth Tuesday of June. All applications for registration must be made on the blanks provided by the Board and filed with the Secretary at least ten days before meetings. The fee of \$15.00 required by law before a candidate can be admitted to examination will not be returned after candidate has taken his examination, irrespective of whether he passes or fails; nor will the fee be returned if the candidate fails to appear, after being duly notified to report for examination, but the Board may at it's discretion admit the candidate to a subsequent examination without additional fee. All certificates of registration will expire on June 30th of each year. On payment of the annual renewal fee of one (\$1.00) dollar, on or before the third Tuesday of June, a renewal registration card will be issued.

SUMMER SCHOOL FOR SURVEYORS

The Board has endorsed a plan to conduct a short course in surveying which Prof. LeTellier expects to inaugurate at The Citadel during the summer of 1925. Details of this will be published later.

Financial Statement

Hon. W. W. Bradley, State Bank Examiner, Columbia, South Carolina,

Sir: Pursuant to your instructions I have examined the books, records and accounts of Mr. T. Keith Legare, Secretary of the STATE BOARD OF ENGINEERING EXAMINERS, Columbia, S. C., for the period commencing June 18, 1923 and ending June 16, 1924.

Report herewith

Respectfully submitted,

(signed) O. P. BOURKE,

Auditor-State Institutions.

Columbia, S. C.,

September 29, 1924.

STATEMENT OF RECEIPTS AND DISBURSEMENTS

(June 18, 1923 to June 16, 1924)

Balance — June 18, 1923 \$4,791.15

Receipts

Registration Fees	\$ 180.00
Renewal Fees	90.00
Duplicate Certificate50

270.50

Disbursements

Vouchers audited	
Departmental Expense	\$1,800.72
Fees Refunded	50.00

\$1,850.72

Balance — June 16, 1924 (Verified)

State Treasurer 3,210.93

\$5,061.65

AFFIDAVITS:

State of South Carolina, County of Richland,

I, G. E. Shand, Chairman of the State Board of Engineering Examiners do hereby certify that the financial report herewith rendered of the finances of the State Board of Engineering Examiners is true to my own knowledge except those matters and facts stated on information and belief, and as to those, I believe it to be true.

G. E. SHAND.

Subscribed and sworn to before me, this 30th day of June, 1924.

JAMES Y. PERRY,

Notary Public for South Carolina.

My commission expires at the pleasure of the Governor.

State of South Carolina, County of Richland,

I, T. Keith Legare, Secretary of the State Board of Engineering Examiners, do hereby certify that the financial report herewith rendered is a correct statement of the finances of the State Board of Engineering Examiners for the period specified.

T. KEITH LEGARE.

Subscribed and sworn to before me, this 30th day of June, 1924.

JAMES Y. PERRY,

Notary Public for South Carolina.

My commission expires at the pleasure of the Governor.

ROSTER OF

Registered Professional Engineers and Land Surveyors

Authorized to Practice in the State of South Carolina As of June 30, 1924.

Note—It is very important that the Secretary be notified of changes in position or address.

KEY TO ABBREVIATIONS:

C. E., Civil Engr.; E. E., Electrical Engr.; E. M., Mining Engr.; M. E., Mechanical Engr.; L. S., Land Surveyor.

Name and Business	Address	Classification	Certificate Date	No.
ADAMS, J. K., Chief Struct. Designer, J. E. Sirmine & Co.	Greenville, S. C.	C.E.	3-22-23	72
ALBERGOTTI, W. M., Mech. Engr., Gibbs Mach. Co.	Columbia, S. C.	M.E., E.E.	12-5-22	38
ALLEN, W. M., Civil Engr. & Surveyor	Dillon, S. C.	C.E., L.S.	9-14-22	6
ALLEN, JAS. P., Civil Engineer.	11 Broad St. Charleston, S. C.	C.E., L.S.	6-19-23	261
ANDERSON, JOHN, Prof. of Hydraulics and Drawing at The Citadel.	Charleston, S. C.	C.E.	9-14-22	7
ANDERSON, N. S., Chief Construction Engineer S. C. State Highway Department.	Columbia, S. C.	C.E., E.M.	3-22-23	246
ANDERSON, S. G., Vice-Pres. and Cash., First Natl. Bank, Surveyor.	Woodruff, S. C.	L.S.	9-14-22	8

ARMSTRONG, F. E., Res. Engr., S. C. State Highway Dept.	Pickens, S. C.	C.E.	3-22-23	71
ARTHUR, LINDSLEY,	c/o The Wateree Power Co. Belmont, N. C.	C.E.	3-22-23	69
BAILEY, O. A., Ch. Engr., Chicago Bridge & Iron Works.	1305 W. 105th St. Chicago, Ill.	C.E.	11-19-23	277
BALDWIN, C. M., Civil Engr., Atlantic Coast Lumber Corp.	Georgetown, S. C.	C.E., L.S.	9-14-22	9
BALLENGER, C. P., ● Engr., Ballenger Paving Co.	226 Emaxce Bldg. Greenville, S. C.	C.E., L.S.	3-22-23	73
BARKLEY, M. B., Vice-Pres., Cameron & Barkley Co.	27 Cumberland St. Charleston, S. C.	M.E.	3-22-23	74
BARNWELL, J. W., Jr., Bridge Engr., S. C. State Hwy. Dept.	Columbia, S. C.	C.E., M.E., L.S.	3-22-23	87
BARRON, B. P., Highway Engineer.	Walterboro, S. C.	C.E.	12-5-22	39
BAYNARD, ROBT. S., Univ. of Fla.	Gainesville, Fla.	C.E.	3-22-23	81
BECKHAM, W. K., Div. Engr., S. C. State Highway Department.	Columbia, S. C.	C.E., L.S.	9-14-22	10
BEEBE, HARWOOD, Municipal and Civil Engineer.	12 Glenn Bldg. Spartanburg, S. C.	C.E., L.S.	3-22-23	88
BELLINGER, HARRY O'B., Civil Engr.	902 Barnwell St. Columbia, S. C.	C.E.	3-22-23	86
BISHOP, G. H., Mgr., The Carolina Engineering Co.	917-919 Johnston Bldg. Charlotte, N. C.	C.E., L.S.	12-5-22	65

BISHOP, R. P., Const. Engr., The Carolina Engineering Co.	Box 1288 Charlotte, N. C.	C.E., L.S.	12-5-22	40
BOESCH, CLARENCE E., Member of Firm, Gilbert C. White Co., Consulting Engineers.	P. O. Box 562 Durham, N. C.	C.E., M.E., E.E.	12-5-22	41
BOONE, L. C., County Engr., Orangeburg County.	Orangeburg, S. C.	C.E.	9-14-22	11
BOOZER, ARTHUR G., Hill & Boozer, Engineers.	Tucapau, S. C.	M.E.	6-19-23	262
BOWEN, S. H., City Engr., City of Easley, Land Surveyor.	Easley, S. C.	C.E., L.S.	3-22-23	75
BOYD, CHARLES O., Civil Engineer.	P. O. Box 156 Dunn, N. C.	C.E., L.S.	11-19-23	279
BOYKIN, A. B., Land Surveyor.	Route No. 2 Lagoff, S. C.	L.S.	3-22-23	76
BOYKIN, T. A., Overhead Dept., Columbia Ry., Gas & Elec. Co.	Columbia, S. C.	C.E., L.S.	3-22-23	77
BRADLEY, HUGHES V., Chief of Survey, Lee, Murray & Palmer.	Sumter, S. C.	C.E., L.S.	3-22-23	82
BRICE, CHAS. M., Res. Engr., Carolina Engineering Co.	P. O. Box 1288 Charlotte, N. C.	C.E., L.S.	3-22-23	85
BRIGGS, W. A., Vice-Pres., The Henry Const. Co., Engineers & Contractors.	Emaxcee Bldg. Greenville, S. C.	C.E., L.S.	3-22-23	83
BROWN, ALEX T., Maintenance Engr., S. C. State Hwy. Dept.	Orangeburg, S. C.	C.E., L.S.	3-22-23	79

BROWN, D. P., Logging Superintendent.	Varnville, S. C.	C.E., L.S.	3-22-23	84
BURDEN, HENRY S., With J. H. Sams, Architect.	Columbia, S. C.	C.E.	3-22-23	78
CAMPBELL, C. D., Res. Engr., S. C. State Hwy. Dept.	Columbia, S. C.	C.E., L.S.	3-22-23	90
CANNON, O. B., Supt. of Newberry City Schools, Land Surveyor.	Newberry, S. C.	L.S.	12-5-22	63
CATHEY, W. C., Div. Engr., S. C. State Hwy. Dept.	Orangeburg, S. C.	C.E., L.S.	3-22-23	97
CHAFFIN, WENDEL W., Res. Engr., G. C. White Co., Consulting Engrs.	304 Oakwood Ave. Sanford, N. C.	C.E., L.S.	3-22-23	89
CHAPMAN, ROBT. H., Asst. Mech. Engr., J. E. Sirrine & Co.	Greenville, S. C.	M.E.	3-22-23	99
CHEVES, H. C., Jr., Pres. McCrady-Cheves Construction Company, Engineers and Contractors.	54 Broad St. Charleston, S. C.	C.E., L.S.	3-22-23	93
CLOWE, R. D., Res. Engr., S. C. State Hwy. Dept.	P. O. Box 274 Aiken, S. C.	C.E.	3-22-23	98
COGGESHALL, J. W., Civil Engr. & Land Surveyor.	Public Square Darlington, S. C.	C.E., L.S.	3-22-23	96
COLEMAN, SAMUEL L., Asst. Engr., City of Charleston.	City Engineer's Office Charleston, S. C.	C.E., L.S.	3-22-23	94
CONARD, R. A., Mem. Firm, Palmer & Conard, Inc., Engineers and Contractors.	P. O. Box 652 Florence, S. C.	C.E.	3-22-23	95

COVINGTON, JAS. F., County Engr., Marlboro County.	Bennettsville, S. C.	C.E., L.S.	3-22-23	91
CRAWFORD, R. T., Supt., Simons-Mayrant Co.	506 Peoples Bldg. Charleston, S. C.	C.E.	3-22-23	92
DALTON, R. E., Civil Engineer.	125 1/2 S. Main St. Greenville, S. C.	C.E.	12-5-22	64
DAWSON, LOUIS Y., Constr. Engr., Charleston Consolidated Ry. & Lighting Co.	P. O. Box 535 Charleston, S. C.	C.E., L.S.	12-5-22	42
DAWSON, L. Y., Jr., Vice-Pres., Dawson Engr. Co.	21 Broad St. Charleston, S. C.	C.E., L.S.	3-22-23	101
DeCAMPS, C. J., Civil Engineer.	P. O. Box 375 Anderson, S. C.	C.E., L.S.	3-22-23	100
DENEEN, W. B., County Engr., Union County.	P. O. Box 74 Union, S. C.	C.E.	9-14-22	13
DILL, TERRY T., Field Engr., J. E. Sirrine & Co., Mill Engrs.	Greenville, S. C.	C.E.	3-22-23	104
DINGLE, J. H., City Engr., City of Charleston.	City Hall Charleston, S. C.	C.E., L.S.	9-14-22	14
DUNBAR, THOS. E., Land Surveyor.	Ellenton, S. C.	C.E., L.S.	3-22-23	103
EADDY, JNO. M., Land Surveyor.	Johnsonville, S. C.	L.S.	3-22-23	242
EARLE, HARRY U., Land Surveyor.	Walhalla, S. C.	L.S.	12-5-22	43
ELSON, J. C., Gen. Supt., Simons-Mayrant Co.	506 Peoples Bldg. Charleston, S. C.	C.E.	3-22-23	107

EMERSON, L. A., Sec. & Treas., Tomlinson Engineering Co.	1002 L. & E. Bank Bldg. Columbia, S. C.	C.E., L.S.	9-14-22	15
ENGLISH, B. M., McColl & English, Inc., Gravel and Sand.	P. O. Box 463 Bennettsville, S. C.	C.E., L.S.	3-22-23	109
EVANS, C. D., Engr., Johnson & Roberts.	Marion, S. C.	C.E., L.S.	3-22-23	106
EVANS, R. M., Civil Engr. and Land Surveyor.	Minturn, S. C.	C.E., L.S.	3-22-23	108
FILBY, E. L., State Sanitary Engineer.	Board of Health, Columbia, S. C.	C.E.	3-22-23	114
FISHER, L. M., Asso. San'y. Engr., U. S. Public Health Service.	206 Palmetto Bldg. Columbia, S. C.	C.E.	3-22-23	113
FLOWERS, S. R., Camp Manufacturing Co., and Surveyor.	Marion, S. C.	L.S.	3-22-23	259
FLOYD, G. T., Real Estate, Ins., Surveying and Civil Engr.	Manning, S. C.	C.E., L.S.	9-14-22	16
FORD, G. T., Engineering and Land Surveying.	Andrews, S. C.	C.E., L.S.	9-14-22	17
FOSTER, J. W., County Engr., Dorchester County.	St. George, S. C.	C.E.	3-22-23	111
FRANK, J. N., Civil Engr. and Surveyor.	Walterboro, S. C.	C.E., L.S.	6-19-23	263
FRY, E. D., Res. Engr., S. C. State Hwy. Department.	Ward, S. C.	C.E., L.S.	3-22-23	112
FURMAN, C. M., Jr., Civil Engr. and Land Surveyor.	111 W. Court St. Greenville, S. C.	C.E., L.S.	3-22-23	110
GAILLARD, J. P., Civil Engr. and Timber Estimator.	514 Peoples Bldg. Charleston, S. C.	C.E.	3-22-23	117

GANDY, R. B., Engr. Harwood Beebe Co.	Spartanburg, S. C.	C.E., L.S.	3-22-23	119
GARRISON, L. CLYDE, Res. Engr. H. S. Jaudon Engr. Co.	Seneca, S. C.	C.E., L.S.	3-22-23	116
GASQUE, B. M., Civil Engr. & Land Surveyor.	Marion, S. C.	L.S.	3-22-23	236
GIBSON, J. E., Mgr. and Engr. Water Dept., City of Charleston.	14 George St. Charleston, S. C.	C.E.	3-22-23	244
GILLESPIE, W. L., Civil Engineer and Surveyor.	P. O. Box 337 Cheraw, S. C.	C.E., L.S.	3-22-23	118
GLEN, A. LEONARD, Res. Engr., S. C. State Hwy. Dept.	1430 Blanding St. Columbia, S. C.	C.E., L.S.	6-19-23	264
GOURDIN, P. G., Civil Engineer and Surveyor.	Kingstree, S. C.	C.E., L.S.	9-14-22	18
GRANDY, LLOYD H., Contractor and Engineer.	Pickens, S. C.	C.E.	3-22-23	115
GREENE, J. C., Res. Engr., S. C. State Hwy. Dept.	Kathwood, S. C.	C.E., L.S.	9-14-22	19
GUNTER, GEO. C., Land Surveyor.	Seivern, S. C.	L.S.	12-5-22	45
HAMBY, THEOD. C., Engr. and Surv., Mgr. Archt. & Engr. Sup. Co.	1135 Washington St. Columbia, S. C.	C.E., L.S.	12-5-22	46
HAMPTON, AMBROSE G., Res. Engr., S. C. State Hwy. Dept.	Lancaster, S. C.	C.E., L.S.	3-22-23	132
HANAHAN, JOHN, Salesman, Caro. Portland Cement Co.	30 Rutledge Blvd. Charleston, S. C.	L.S.	6-19-23	265

HARLEY, JAS. B., Asst. Supt. and Engr., J. M. Gregory & Co., Paving Contractors.	P. O. Box 782 Charleston, S. C.	C.E., L.S.	3-22-23	122
HARRIS, W. E., Res. Engr., S. C. State Hwy. Dept.	Columbia, S. C.	C.E., L.S.	3-22-23	123
HARRISON, F. P., Consulting Engineer.	162 E. Main St. Spartanburg, S. C.	E.E.	3-22-23	137
HARTLEY, E. L., Land Surveyor.	Batesburg, S. C.	L.S.	3-22-23	258
HARVEY, G. H., Farmer and Surveyor.	Holly Hill, S. C.	L.S.	3-22-23	131
HAWES, EDWARD, City Engr., City of Orangeburg.	City Hall Orangeburg, S. C.	C.E., L.S.	3-22-23	136
HENRY, J. B., Pres., Henry Constr. Co., Engrs. and Contrs.	P. O. Box 1000 Greenville, S. C.	C.E.	3-22-23	140
HESTER, W. A., Land Surveyor.	Travellers Rest, S. C.	L.S.	3-22-23	124
HICKLIN, W. J., Capitol Concrete Co.	700 Lady St. Columbia, S. C.	C.E.	3-22-23	121
HIGHTOWER, H. C., Land Surveyor.	Denmark, S. C.	L.S.	3-22-23	238
HILL, BURROW, Res. Engr., S. C. State Hwy. Dept.	Columbia, S. C.	C.E.	3-22-23	134
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WISWALL, HOWARD, Land Surveyor & Timber Est.	332 Montford Ave. Asheville, N. C.	C.E., L.S.	3-22-23	253

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WRIGLEY, GEORGE, Charge of Elec. Dept. J. E. Surrine & Co. Engrs. Mem. State Board Engr. Exam.	Greenville, S. C.	M.E., E.E.	9-14-22	5
YOUNG, L. G., City Engineer, City of Union.	Union, S. C.	C.E., L.S.	3-22-23	235

Deceased—B. R. Cowherd, Jr.
T. H. Hardin.

Registered Engineers and Surveyors

(Arranged by Certificate Numbers)

No.	NAME	No.	NAME
1.	G. E. Shand	36.	Perry M. Teeple
2.	L. S. LeTellier	37.	Guy H. White
3.	T. Keith Legare	38.	W. M. Albergotti
4.	W. S. Tomlinson	39.	B. P. Barron
5.	George Wrigley	40.	Roy P. Bishop
6.	W. M. Allen	41.	Clarence E. Boesch
7.	John Anderson	42.	Louis Y. Dawson
8.	S. G. Anderson	43.	Harry U. Earle
9.	C. M. Baldwin	45.	George C. Gunter
10.	W. K. Beckham	46.	Theod. C. Hamby
11.	L. C. Boone	47.	H. B. Humbert
13.	W. B. Deneen	48.	H. S. Jaudon
14.	J. H. Dingle	49.	Joseph Keels
15.	L. A. Emerson	50.	Daniel B. Luten
16.	G. T. Floyd	51.	F. A. Moorer
17.	G. T. Ford	52.	F. H. Murray
18.	P. G. Gourdin	53.	Arthur E. Nimitz
19.	J. C. Greene	54.	J. C. Perrin
20.	Gedney M. Howe	55.	Wm. M. Piatt
21.	J. E. Jeffords	56.	Harry T. Poe, Jr.
22.	J. T. Kennedy	57.	S. B. Rambo
23.	F. W. Lee	58.	C. Custer Robinson
24.	W. Loring Lee	59.	Russell A. Smith
25.	James B. Mayes	60.	J. E. Sirrine
26.	W. L. Mitchell	61.	George L. Watson
27.	M. L. Murph	62.	T. E. Wilson
28.	R. F. McClellan	63.	O. B. Cannon
29.	Joe Needle	64.	R. E. Dalton
30.	Joseph Palmer	65.	G. H. Bishop
31.	James A. Postell	66.	W. A. Whitefield
32.	Edward L. Price	67.	Gilbert C. White
33.	N. N. Royall	68.	Nisbet Wingfield
34.	B. M. Thomson	69.	Lindsley Arthur
35.	W. H. Shearer	71.	F. E. Armstrong

No.	NAME	No.	NAME
72.	J. K. Adams	114.	E. L. Filby
73.	C. P. Ballenger	115.	Lloyd H. Grandy
74.	M. B. Barkley	116.	L. Clyde Garrison
75.	S. H. Bowen	117.	J. P. Gaillard
76.	A. B. Boykin	118.	W. L. Gillespie
77.	T. A. Boykin	119.	R. B. Gandy
78.	Henry S. Burden	120.	A. E. Holman
79.	Alec. T. Brown	121.	W. J. Hicklin
81.	Robert S. Baynard	122.	Jas. B. Harley
82.	Hughes V. Bradley	123.	W. E. Harris
83.	W. A. Briggs	124.	W. A. Hester
84.	D. P. Brown	126.	D. T. Holt
85.	Chas. M. Brice	128.	N. C. Hughes, Jr.
86.	Harry O'B. Bellinger	129.	R. D. Hughey
87.	J. W. Barnwell, Jr.	130.	D. A. Hulick
88.	Harwood Beebe	131.	G. H. Harvey
89.	Wendel W. Chaffin	132.	Ambrose G. Hampton
90.	C. D. Campbell	133.	W. F. Holmes
91.	Jas. F. Covington	134.	Burrow Hill
92.	R. T. Crawford	135.	E. B. Hook, Jr.
93.	H. C. Cheves, Jr.	136.	Edward Hawes
94.	Samuel L. Coleman	137.	Frank P. Harrison
95.	R. A. Conard	138.	Sam M. Hunter, Jr.
96.	J. W. Coggeshall	140.	J. B. Henry
97.	W. C. Cathey	141.	Cecil Johnson
98.	R. D. Clowe	142.	J. Newton Johnston
99.	Robert H. Chapman	143.	Howell C. Jones
100.	C. J. DeCamps	144.	E. D. Jervy
101.	Louis Y. Dawson, Jr.	145.	H. G. Jones
103.	Thomas E. Dunbar	146.	J. M. Johnson
104.	Terry T. Dill	147.	J. C. Kinloch
106.	C. D. Evans	148.	Robert King
107.	J. C. Elson	149.	Loran A. Kerr
108.	R. M. Evans	150.	J. T. Kollock
109.	B. M. English	151.	L. P. Slattery
110.	C. M. Furman, Jr.	152.	H. H. Kester
111.	J. W. Foster	153.	B. R. Linley
112.	E. D. Fry	154.	Thos. T. Linder
113.	L. M. Fisher	155.	Thos. C. Latimer

No.	NAME
156.	Geo. H. LaBruce
157.	J. Bryce LaBruce
158.	Wm. Lindsay, Jr.
159.	James A. Loughlin
160.	W. S. Lewis
161.	B. G. Langford
162.	Randolph B. Lee
163.	S. B. Lincoln
164.	Thos. V. Moore
165.	Louis A. May
166.	H. T. Morrison
167.	Jas. W. Martin
168.	W. R. Mayrant
169.	L. M. Mahaffey
170.	W. W. Miller
171.	H. C. Mobley
172.	Jno. A. McPherson
173.	John McCrady
174.	C. H. McLaurin
175.	F. M. Niernsee
176.	W. D. Neves
177.	T. W. O'Dell
178.	Adlai Osborne
179.	W. C. Pitts
180.	R. M. Powers
181.	Otis M. Page
182.	J. F. Pearson
183.	G. H. Palmer
184.	P. F. Patton
185.	A. A. Muckenfuss
187.	C. F. Prettyman
188.	J. L. Parker
189.	J. N. Pease
191.	Wm. S. Rodgers
193.	J. O. Reed
194.	J. F. Roberts
195.	J. E. Redden
196.	F. M. Reeves
197.	W. C. Roberts

No.	NAME
198.	G. D. Ryan
199.	W. A. Sanders
200.	J. A. Singletary
202.	J. W. Smyly
203.	J. W. Simmons
204.	J. F. Spellman
205.	D. H. Sullivan
206.	T. C. Stevenson
207.	H. L. Sligh
208.	T. W. Secrest
209.	E. H. Shuler
210.	H. Stribling
211.	T. J. Smith
212.	E. D. Sloan, Jr.
213.	H. N. Sutton
214.	Raymond B. Smith
215.	S. Lewis Simons
216.	Cambridge M. Trott
217.	L. P. Tobin
218.	W. R. Turbeville
219.	L. B. Tuten
220.	J. E. Vernon
221.	C. V. Verner
222.	Julian B. Weston
223.	H. C. Walker
225.	William Weston
227.	Jas. A. Winter
228.	H. H. White
229.	J. S. Williamson
230.	C. F. Wagner
231.	Chas. C. Wilson
232.	Geo. W. White
233.	C. W. Wannamaker
234.	W. N. Willis
235.	L. G. Young
236.	B. M. Gasque
238.	H. C. Hightower
239.	C. P. Roberts
240.	S. M. Sifford

No.	NAME
241.	J. Y. Scruggs
242.	Jno. M. Eaddy
244.	Jas. E. Gibson
245.	R. M. Porter
246.	N. S. Anderson
247.	F. R. Sweeny
248.	H. L. Wannamaker
249.	McQueen Quattlebaum
250.	Robert D. Porter
251.	Earl Mauldin
252.	J. H. McLure
253.	Howard Wiswall
255.	G. A. Schulze
258.	E. L. Hartley
259.	S. R. Flowers
260.	C. M. Manheim
261.	James P. Allen
262.	Arthur G. Boozer
263.	J. N. Frank
264.	A. Leonard Glen

No.	NAME
265.	John Hanahan
266.	George Hill
267.	S. R. Lever, Jr.
268.	Thomas S. Mauldin
269.	R. W. Maynard
270.	J. A. McCormack
271.	C. R. McMillan
273.	W. G. Wallace
274.	C. H. Millard
275.	J. W. Williams
276.	J. O. Wright
277.	O. A. Bailey
278.	R. T. James
279.	Chas. O. Boyd
280.	W. H. Miller
281.	J. T. Wardlaw
282.	P. H. Norcross
283.	G. J. Sheppard
284.	H. W. Shaw

South Carolina Registration Law

An Act Providing for the Creation and Establishment of a State Board of Engineering Examiners, Granting Certain Powers to and Prescribing the Duties of said Board: Providing for the Examination and Registration of Land Surveyors and Professional Engineers, Regulating the Practice of Engineering in the State of South Carolina and Providing Penalties for the Violation of this Act.

Section 1. *Be it enacted* by the General Assembly of the State of South Carolina: After six months from the date of the approval of this Act, no person shall be allowed or authorized to use after his name, advertisement, or otherwise, in the practice of his profession as professional engineer, the words "registered" unless he comply with the further provisions of this Act requiring that he satisfactorily pass an examination as embodied in Sections 8, 9, 10 and 11 of this Act: *Provided*, That the provisions of this bill shall only apply to those holding themselves out to the public as registered engineers: *Provided*, that the provisions of this Act shall not apply to land surveyors unless they desire to hold themselves out as "registered land surveyors."

Section 2. Under no circumstances shall the total amount of warrants issued by the State Auditor in payment of the expenses and compensations provided in this Act exceed the amount of the examination and registration fees collected as herein provided.

Section 3. As used in this Act:

(a) The "Board" means the State Board of Engineering Examiners provided for by this Act.

(b) "Surveyor." Any person who shall be engaged in locating, establishing or relocating any land boundary line between two or more land-owners, or who shall be engaged in locating any United States Government, State, County, Township or Municipal land survey lines, or the lines or any public streets or roads, is hereby declared to be a Surveyor and as practicing land surveying within the provisions of this Act.

(c) Any person who shall be engaged in the designing or supervising of the construction, enlargement or alteration of any engineering structure, or utilities, as hereinafter defined, or any part thereof for others and to be constructed by persons other than himself, shall be regarded as practicing Professional Engineering within the meaning of this Act. The practicing of professional engineering within meaning of this Act embraces the design and the supervision of the construction of public and private utilities, such as railroads, bridges, highways, roads, canals, harbors, river improvements, lighthouses, wet docks, dry docks, ships, barges, dredges, cranes, floating docks and other floating property, the design and the supervision of the construction of steam engines, turbines, internal combustion engines and other mechanical structures, electrical machinery and apparatus, and of works for the development, transmission or application of power, the design and the supervision of mining operations and of processes and apparatus for carrying out such operations, and the design and supervision of the construction of municipal works, irrigation works, water supply works, sewerage works, drainage works, industrial works, sanitary works, hydraulic works and structural works and of other public or private utilities or works which require for their design or supervision of the construction such experience and technical knowledge as are required in Section 8 of this Act. The execution as a contractor of works designed by a professional engineer or the supervision of the construction of such work as a foreman or superintendent for such a contractor shall not be deemed to be the practice of professional engineering within the meaning of this Act.

(d) "Engineer" means any person who practices professional engineering.

Section 4. There is hereby created a State Board of Engineering Examiners consisting of five members to be appointed by the Governor within sixty (60) days after the passage of this Act. Three members of the Board shall be civil engineers, one a mining or electrical engineer, and the other one a mechanical engineer or naval architect. Of the members of the Board first appointed hereunder two shall hold office for a term of two years, two shall hold office for a term of three years, and one shall hold office for a term of four years, each term of office ending the first day of July. Upon expiration of each of such terms the term of office of each member thereafter appointed shall be four years. Each member shall hold over the expiration of his term until his successor shall be duly appointed and qualified. The Governor may remove any member of the Board for misconduct, incapacity or neglect of duty. Vacancies in the Board caused by death, resignation or removal from office shall be filled by appointment by the Governor for the unexpired term. Each member of the Board shall be a professional engineer of at least ten years active experience and of recognized good standing in his profession and shall be at least thirty-five years of age and shall have been a resident of this State for at least three years immediately preceding this appointment. Each member of said board except the members first appointed hereunder, shall also be registered as a professional engineer under this Act. The members of the Board shall receive as compensation, the sum of ten (\$10.00) dollars per day for the time actually spent in traveling to and from and in attending sessions of the Board and its committees, and each member shall receive all necessary expenses incident to the performance of his duties under this Act.

Section 5. Every member of the Board shall receive a certificate of his appointment from the Governor and before beginning his term of office shall file with the SECRETARY OF STATE his written oath for the faithful discharge of his official duty. Each member of the Board first appointed hereunder shall receive a certificate of registration under this Act from said Board. The Board shall adopt and have an official seal. The Board may make all by-laws and rules not inconsistent with law needed in performing its duties; but no by-laws or rule by which more than a majority vote is required for any specified action by the Board shall be amended, suspended or repealed by a smaller vote than that required for action thereunder.

Section 6. The Board shall annually elect from its members a chairman, a vice-chairman and a secretary. The secretary shall give a surety bond in the sum of three thousand (\$3,000.00) dollars conditioned for the faithful performance of his duties and for the accounting and paying over of all moneys received by him. The premium on said bond shall be paid from the fund of the Board hereinafter provided. The secretary shall keep on file a record of all certificates of registration granted. He shall receive and account for all fees derived from the operation of this Act, and shall pay to the State Treasurer, who shall keep such moneys in a separate fund, to be known as the Fund of the Board of Engineering Examiners, continued from year to year to be drawn against only for the expenses of the Board. Warrants for the payment of the expenses incurred shall be issued by the Comptroller General of the State and paid by the State Treasurer upon presentation of vouchers regularly drawn by the chairman and the secretary of the Board, *Provided*, however, that at no time shall the total amount of warrants exceed the total amount of fees paid under this Act. On or before the 30th day of June in each year the Board shall submit to the Governor a written report of its transactions for the preceding year, and shall file with the SECRETARY OF STATE a copy of said report, together with a complete statement of the receipts and expenditures of the Board, attested by the affidavits of the chairman and secretary, and a complete list of those registered under

this Act, with their addresses and the dates of their certificates of registration. The Board shall hold at least two regular meetings in each year, special meetings may be called in such manner as the by-laws of the Board may provide. Notice of all meetings shall be given in such manner as the by-laws of the Board may provide. At all meetings a majority of the Board shall constitute a quorum.

Section 7. The Board shall have power to employ, during its pleasure such clerks and other employees and to rent such offices as may be necessary for the proper performance by it of its duties as in this Act prescribed.

Section 8. *Admission to Examination.* The Board shall admit to examination any candidate who pays a fee of fifteen (\$15.00) dollars and submits evidence by oath and satisfactory to the Board that he

(a) Is more than twenty-one (21) years of age,

(b) Is of good character, and

(c) Has been engaged in the practice of professional engineering or land surveying for at least four (4) years, and during that period has had charge of said work, as principal or assistant, for at least one year.

(d) Or, in lieu of requirement (c) specified above, is a graduate from an engineering school.

(e) *Provided*, however, that no person shall be eligible for registration who is not a citizen of the United States of America unless he has filed his first papers for naturalization; and then he will be required to have completed his naturalization within three years from the date that he is granted certificate of registration, or he will be deprived from further practicing his profession or calling, as set forth in this Act. *Provided, further*, that the securing of a license to practice land surveying shall be optional; but no person without such license shall use the title, "Registered Land Surveyor."

Section 9. Examinations for registration shall be held at regular special meetings of the Board at such times and at such places within the State in each year as the Board shall determine. The scope of the examinations and the methods of procedure shall be prescribed by the Board with special reference to the applicant's ability to design and supervise engineering works which shall insure the safety of life and property. Examinations shall be held to determine the qualifications of applicants for registration separately in surveying or in any one of the branches of professional engineering, embracing civil, mechanical and electrical, mining or naval architecture. The examination may either be oral and partly written. As soon as practicable after the close of each examination the members of the Board who shall have conducted such examination shall make and sign and file with the secretary a certificate stating the action of the Board upon the application of each candidate, whereupon the Secretary of the Board shall notify each candidate of the result of his examination. A candidate failing on examination, may, after an interval of not less than one year, be examined again.

Section 10. In the case of examination as professional engineer, upon receipt of an additional fee of ten (\$10.00) dollars, the Board shall issue to any applicant who has been reported to have passed the examination conducted by the Board, a certificate of registration as a professional engineer in the branch or branches in which he is qualified, signed by the chairman and secretary of the Board, under the seal of the Board, whereupon such applicant shall be authorized to practice professional engineering as defined by this Act. In the case of examination as land surveyor, upon receipt of an additional fee of ten (\$10.00) dollars the Board shall issue to any applicant who has reported to have passed the examination conducted by the Board, a certificate of registration as a land surveyor, signed by the chairman and secretary of the Board under the seal of the Board, whereupon such applicant shall be authorized to practice land surveying, as defined by the Act. A certificate of registration as a professional engineer shall not carry with it the right to practice land sur-

veying unless it is specifically permitted by the said certificate, which permission shall be granted by the Board without additional fee in the case of any applicant duly qualified as prescribed by the rules of the Board.

Section 11. At any time within one year after this Act has become effective, upon due application thereof and the payment of a fee of twenty-five (\$25.00) dollars the Board shall issue a certificate of registration, as provided by *Section 10*, to any professional engineer or land surveyor who shall submit evidence under oath and satisfactory to the Board that he is of good character, has been a resident to the State of South Carolina for at least one year immediately preceding the date of his application, and has practiced professional engineering or land surveying preceding the date of his application, and during that period has had charge of engineering work or land surveying as principal or assistant. After this Act shall have been in effect one year, the Board shall issue certificates of registration only as provided in *Sections 5, 10 and 11* hereof.

Section 12. The Board shall, from time to time, examine the requirements for the registration of professional engineers in other states, territories and countries and shall record those in which, in the judgment of the Board, standards not lower than those provided by this Act are maintained. The Secretary of the Board, upon the presentation to him by any person of satisfactory evidence that such person holds a certificate of registration issued to such person by proper authority in any such state, territory or country as recorded and upon receipt by him of a fee of ten (\$10.00) dollars shall issue to such person a certificate of registration under this Act, signed by the President and Secretary under the seal of the Board, whereupon the person to whom such certificate is issued shall be entitled to all the rights and privileges conferred by a certificate issued after examination by the Board.

Section 13. It shall be the duty of the Board to inquire into the identity of any person practicing or claiming to be a land surveyor, or professional engineer. The Board shall have the power by four-fifths vote to revoke the certificate of any professional engineer or land surveyor registered hereunder, found guilty of any fraud, deceit or gross incompetency in his practice, or guilty of any fraud or deceit in obtaining his certificate, or in case he is found by the same vote to be incompetent. Proceedings for the revocation of license of registration shall be begun by filing with the Secretary of the Board written charges against the accused. The Board shall designate a time and place for a hearing and shall notify the accused of this action and furnish him a copy of all charges at least ten days prior to the date of the hearing. The accused shall have the right to appear personally or by counsel, to cross examine witnesses or to produce witnesses in his defense. The Board may summons witnesses and administer oaths. It shall be the duty of the Board to prosecute any persons violating the provisions of this Act.

Section 14. Every certified professional engineer so registered under this Act who desires to continue the practice of his profession shall annually pay to the Secretary of the Board a fee of one (\$1.00) dollar on or before a date to be fixed by the Board, for which fee a renewal certificate of registration for the current year shall be issued.

Section 15. An unrevoked certificate and endorsement of registry made as provided in this Act shall be presumptive evidence in all courts and places that the person named therein is legally registered.

Section 16. The provisions of the Act shall apply to every corporation, domestic or foreign, engaged in the business of professional engineering within the State of South Carolina, except that certificate of registration issued hereunder shall be held by one or more of its officers or employees instead of by such corporation.

Section 17. The Board, during the month of April in each year shall certify and publish a complete list of registered professional engineers and

land surveyors with their business addresses in a newspaper published in the State of South Carolina.

Section 18. Any person who, not being then legally authorized to practice professional engineering or land surveying within this State according to the provisions of this Act and so registered according to law, shall practice, or attempt or advertise to practice, or holding himself out as authorized to practice professional engineering or land surveying or shall use in connection with his name, or otherwise assume, use or advertise any title or designation tending to convey the impression that he is a professional engineer or registered land surveyor, shall be deemed guilty of a misdemeanor and shall for each offence of which he is convicted be punished by a fine not to exceed five hundred (\$500.00) dollars or by imprisonment not to exceed three months, or both such fine and imprisonment.

Section 19. This Act shall not apply to military engineering or to any professional engineer working for the United States Government, nor to employees of railroads or inter-state public service corporations. Nor to any professional engineer employed as an advisor or an assistant to a professional engineer registered under this Act; nor to any professional engineer coming from without this State and employed therein until a reasonable time, as prescribed by the rules of the Board, shall have elapsed to permit the registration of such person under this Act, *Provided*, That before practicing within this State he shall have applied for the issuance to him of a certificate of registration and shall have paid the fee prescribed in this Act.

Section 20. This Act shall not apply to any architect registered by the State of South Carolina under the provisions of the Act creating the State Board of Architecture.

Section 21. Persons licensed to practice professional engineering in this State under this Act shall be exempt from the provisions of any Act providing for the licensing of architects or regulating the practice of architecture in so far as the definition of "buildings" in any said Architects' Act may include, or be included in the structures enumerated in Section 3 of this Act.

Section 22. All laws or parts of laws in conflict with the provisions of this Act be and the same are hereby repealed.

Section 23. This Act shall take effect immediately upon its passage and approval by the Governor.

Approved the 22nd day of March, A. D. 1922.

R. A. COOPER, Governor.

Council of State Boards of Engineering Examiners

REVISED ARTICLES OF AGREEMENT RELATING TO RECIPROCAL REGISTRATION OF ENGINEERS

Article 1. Reciprocal registration as provided for in these Articles of Agreement shall be granted only to an applicant who is already registered in some state which is a member of this Council. A detailed professional record, properly attested, and accompanied by references as to character and qualification from three registered practicing engineers shall be filed with the applicant's board of examiners. Qualification for reciprocal registration shall be determined upon the basis of such professional record, thorough consideration of which shall constitute examination.

Article 2. Engineering experience gained by the applicant prior to his reaching the age of eighteen years shall not be counted as a part of his professional experience.

Article 3. Professional experience shall be considered as beginning when the candidate has entered upon a position in professional engineering work which requires original thought and responsibility. For example:

(a) In the field experience shall begin to count when the applicant reaches a position of responsibility equivalent to that of actual transitman.

(b) In the shop or laboratory experience shall begin to count only after apprenticeship, foremanship, inspectorship, or other subordinate positions unless the work done specifically shows that the applicant possesses originality of design and has had responsibility in his subordinate positions.

(c) In the office or drafting room experience shall begin to count when the applicant ceases to do merely tracing, lettering, or purely mechanical work requiring for its performance merely manual dexterity, and enters a position of responsibility where he begins actual design.

(d) Experience in the teaching of engineering shall begin to count when the applicant is a full-time instructor in engineering in an engineering school of recognized standing, and each year of teaching shall be considered equivalent to one year of practice.

Article 4. The applicant shall have had ten years of experience in professional engineering, and in addition shall show that he is qualified to design as well as to direct engineering operations, as evidence of qualification for reciprocal registration, and his experience record shall show progressive advancement in the character of the work performed.

Each case shall be considered on its merits, and the experience record must be given in such complete detail that the Board of Examiners can determine the character of work performed by the applicant.

Article 5. Graduation from an engineering school of recognized standing shall be accepted as the equivalent of four years of such practice.

An engineering school of recognized standing shall be one which requires the equivalent of a high school or preparatory school diploma as an entrance requirement and demands the equivalent of a four years' course in engineering for graduation.

Article 6. Making reciprocal registration operative between the states shall be done by means of certification from one state to another of the applicant's qualifications. This certification shall be by means of a card or form bearing the date, serial number, and signatures of the



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